NAME OF WORK: Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

QC ABSTRACT

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Brick	Compressive Strength	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		EFFLORESCENCE	One Test		1	1
		DIMENSIONS AND TOLERANCES	One Test		1	1
8	PCC(M15)	Compressive Strength(7days and 28days)	1 set /1-5 cum	4.08	2	2

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9	RCC(M25)	Compressive Strength(7days and 28days)	1 set /1-5 cum	1.88	2	2
10	RCC(M25)	Compressive Strength(7days and 28days)	1 set /1-5 cum	2.62	2	2
11	RCC(M20)	Compressive Strength(7days and 28days)	1 set /1-5 cum	0	2	2
12	Paver Block	Compressive Strength	One Test		1	1
		Water Absorption	One Test		1	1
13	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
14	Structural Steel Truss (Column)NB 200 OD 219.1, 12Th	Weight/Meter	One Test		1	1
		Thickness	One Test		1	1
		Outer Diameter	One Test		1	1
		Yeild Stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
		Bend Test	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-06-05-02** **Date: 04-02-23**
Project Name	:	Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency
Agency	:	Sri. S.D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149
Customer's Reference	:	EE(Project)/Ynk Zone/WO/11/2021-22
Date of Receipt	:	01-02-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification . IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test		
Environmental Conditions during test	:	02-02-23 Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	2.55	–
2	Finess by Air permeablity method (m^2/kg,Min)	287.5	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 02-03-23

Lab ID	:	**CP-2023-06-05-02**
Project Name	:	Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency
Agency	:	Sri. S.D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149
Customer's Reference	:	EE(Project)/Ynk Zone/WO/11/2021-22
Date of Receipt	:	01-02-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	02-02-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Date: 04-02-23

Lab ID	:	CP-2023-06-05-02
Project Name	:	Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency
Agency	:	Sri. S.D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149
Customer's Reference	:	EE(Project)/Ynk Zone/WO/11/2021-22
Date of Receipt	:	01-02-23
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-02-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	310	310	2.1	97.9	90-100
3	20 mm	7445	7755	51.7	48.3	30-70
4	10 mm	5150	12905	86.0	14.0	10-35
5	4.75 mm	1725	14630	97.5	2.5	0-5
6	Pan	370	15000	100.0	0	---

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Lab ID : **CP-2023-06-05-02**

TEST REPORT ON COARSE AGGREGATES

Date: 04-02-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	7.5	
3	Specific Gravity	2.61	–
4	Bulk Density(Loose) (Kg/l)	1.38	–
5	Bulk Density(Compacted) (Kg/l)	1.42	–
6	Water Absorption(%)	0.25	–

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Date: 03-02-23

Lab ID	:	CP-2023-06-05-02
Project Name	:	Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency
Agency	:	Sri. S.D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149
Customer Reference	:	EE(Project)/Ynk Zone/WO/11/2021-22
Date of Receipt	:	01-02-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-02-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	250	250	5.0	95.0	90-100
3	10 mm	2795	3045	60.9	39.1	25-55
4	4.75 mm	1545	4590	91.8	8.2	0-10
5	Pan	410	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-06-05-02** **Date: 03-02-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF FINE AGGREGATE

Date: 03-02-23

Lab ID	:	CP-2023-06-05-02
Project Name	:	Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency
Agency	:	Sri. S.D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149
Customer's Reference	:	EE(Project)/Ynk Zone/WO/11/2021-22
Date of Receipt	:	01-02-23
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	01-02-23
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	30	30	3.0	97.0	90-100	90-100	90-100	95-100
3	2.36 mm	50	80	8.0	92.0	60-95	75-100	85-100	95-100
4	1.18 mm	239	319	31.9	68.1	30-70	55-90	75-100	90-100
5	600 micron	206	525	52.5	47.5	15-34	35-59	60-79	80-100
6	300 micron	204	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-06-05-02** **Date: 03-02-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	8.0	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF STEEL

Lab ID : **CP-2023-06-05-02** **Date: 02-02-23**

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency : Sri. S.D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk Zone/WO/11/2021-22

Date of Receipt : 01-02-23

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.

Date of test: : 01-02-23

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : CP-3033-06-05-03 Date: 29-04-23

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency : Sri. S.D Venkatesh Gowda, #151, Sandhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk Zone/WO/11/2021-22

Date of Receipt : 25-04-23

Sample Type /Size : CC Kerb Stone/ 450*165*400mm

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 25/04/2023

Grade of Kerb : M15

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	77.49	165.51	2.364	4715	81.5	17.3	17.3	21.6
2	B	77.51	165.49	2.393	4718	80.9	17.1	17.1	21.4
3	C	77.48	165.50	2.315	4714	82.1	17.4	17.4	21.8

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Lab:IB

Project Name	:	CP-2023-06-05-02 **Date: 27-04-23**
Agency	:	Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency
Customer's Reference	:	Sri. S.D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149
Date of Receipt	:	EE(Project)/Ynk Zone/WO/11/2021-22
Identification Mark on Brick	:	21-04-23
Reference to BIS codes	:	MTB
		IS 1077 : 1992 (RA 2021) Common Burnt Clay Building Bricks-Specification IS 3495 (Part I to 3) : 1992(RA 2019) Method of Tests Burnt Clay Building Bricks Part 1:Determination of Compressive Strength, (Cl 4.2.3) Part 2:Determination of Water Absorption,(Cl 4.1.3) Part 3: Determination of Efflorescence, (Cl 4)
Date of test	:	21-04-23

COMPRESSIVE STRENGTH

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Failure Load (KN)	Compressive strength of individual bricks (N/mm^2)	Acceptablity as per IS 1077:1992, Clause 7.1
1	228.13	109.98	25090	206.7	8.2	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	228.98	108.62	24872	197.6	7.9	
3	231.01	107.99	24947	201.3	8.1	
4	230.11	107.54	24746	199.5	8.1	
5	228.16	106.98	24409	194.6	8.0	
Average of 5 bricks					8.1	

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Lab ID : CP-2023-06-05-02 Date: 27-04-23

WATER ABSORPTION:

Sl.No.	Dry Weight	Wet Weight	Water Absorption(%)	Acceptablity as per IS 1077:1992, Clause 7.2
1	2.975	3.265	9.7	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	2.868	3.176	10.7	
3	2.906	3.196	10.0	
4	2.976	3.275	10.0	
5	2.875	3.218	11.9	
Average Water Absorption(%)			10.5	

EFFLORESCENCE:

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Efflorescence	Acceptablity as per IS 1077:1992, Clause 7.3
1	229.18	108.98	24976	Slight	The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higer classes.
2	228.98	109.18	25000	Moderate	
3	228.18	108.39	24732	Slight	
4	230.19	107.98	24856	Moderate	
5	228.13	109.19	24910	Slight	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4610	4520 to 4680 mm
2	Width	2185	2160 to 2240 mm
3	Height	1390	1360 to 1440 mm

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CERAMIC TILES

Lab ID	:	**CP-2023-06-05-02** **Date: 03-05-23**
Project Name	:	Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency
Agency	:	Sri. S.D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149
Customer's Reference	:	EE(Project)/Ynk Zone/WO/11/2021-22
Date of Receipt	:	27-04-23
Sample Type/ Size	:	Ceramic tiles (400X400)mm
Reference to BIS codes	:	IS 13630 (part 1) : 2019, IS 15622:2018
Date of test	:	27-04-23

MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS

Number Of Specimen	Length measured at position 5mm from the corner		Breadth measured at position 5mm from the corner		Thickness measured at thickest part, 4 diagonal segment			
	1	2	1	2	1	2	3	4
1	400	400	400	400	20.01	20.01	20.08	20.04
2	400	400	400	400	20.01	20.07	20.01	20.01
3	400	400	400	400	20.03	20.05	20.06	20.03
4	400	400	400	400	20.06	20.05	20.08	20.06
5	400	400	400	400	20.08	20.06	20.05	20.08
6	400	400	400	400	20.03	20.07	20.07	20.07
7	400	400	400	400	20.08	20.05	20.08	20.07
8	400	400	400	400	20.02	20.05	20.04	20.05
9	400	400	400	400	20.04	20.04	20.02	20.04
10	400	400	400	400	20.04	20.01	20.05	20.04
Average	**400**		**400**		**20.05**			

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TEST REPORT OF CERAMIC TILES

WATER ABSORPTION

Sl.no	Weight of oven dry sample	Saturated weight of sample	Water absorption by mass	Average value of water absorption
1	1506	1555	3.25	3.36
2	1524	1564	2.62	
3	1564	1600	2.30	
4	1510	1575	4.30	
5	1515	1580	4.29	

MODULUS OF RUPTURE AND BREAKING STRENGTH

Sl.No

Sl.No.	Dimension (mm)			Wet Transverse Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	400	400	20.04	14.8	14.66
2	400	400	20.06	14.2	
3	400	400	20.02	14.9	
4	400	400	20.06	14.8	
5	400	400	20.05	14.6	

* The results obtained are satisfactory as per standard requirements.

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CEMENT CONCRETE PRECAST CONCRETE BLOCKS FOR PAVING

Date: 04-05-23

Lab ID	:	**CP-2023-06-05-02**
Project Name	:	Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency
Agency	:	Sri. S.D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149
Customer Reference	:	EE(Project)/Ynk Zone/WO/11/2021-22
Date of Receipt	:	29-04-23
Sample Type/ Size	:	Precast concrete blocks for paving
Reference to BIS codes	:	IS 15658:2021
Date of test	:	29-04-23

1.Compressive Strength

Sl.No.	Dimension (mm)			Compressive Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	197.22	159.88	75.99	32.5	33.1
2	198.48	159.64	75.25	33.8	
3	199.54	159.54	75.48	32.5	
4	197.68	159.22	75.55	33.5	
5	198.11	159.87	75.32	32.8	
6	198.18	160.02	75.11	33.4	
7	198.45	158.99	75.98	33.2	
8	197.22	159.22	75.12	32.8	

2. Water Absorption

Sl.No.	Wet Weight	Dry weight	Thickness	Water Absorption (%)	Average (%)
1	4.987	4.828	75.85	3.29	3.64
2	4.898	4.721	75.22	3.75	
3	4.988	4.802	75.44	3.87	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	**CP-2023-06-05-02** **Date: 29-04-23**
Project Name	:	Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency
Agency	:	Sri. S.D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149
Customer's Reference	:	EE(Project)/Ynk Zone/WO/11/2021-22
Date of Receipt	:	26-04-23
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	26-04-23
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2023-06-05-02** **Date: 29-04-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.90	–
5	Loose Bulk Density (Kg/litre)	1.73	–

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT FOR PLASTER SAND

Lab ID	:	**CP-2023-06-05-02** **Date: 02-05-23**
Project Name	:	Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency
Agency	:	Sri. S.D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149
Customer's Reference	:	EE(Project)/Ynk Zone/WO/11/2021-22
Date of Receipt	:	26-04-23
Sample Type	:	Plaster Sand
Reference to BIS codes	:	IS: 383 : 2016 (Specification for Coarse and fine Aggregates) IS1542:1992 (RA 2019) (Sand for Plaster - Specification) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test	:	26-04-23
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	35	35	3.5	96.5	95-100
3	2.36 mm	10	45	4.5	95.5	95-100
4	1.18 mm	46	91	9.1	90.9	90-100
5	600 micron	100	191	19.1	80.9	80-100
6	300 micron	215	406	40.6	59.4	20-65
7	150 micron	500	906	90.6	9.4	0-15
8	Pan	94	1000	100	0	---

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-06-05-02** **Date: 02-05-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 25-04-23

Lab ID	:	CP-2023-06-05-02
Project Name	:	Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency
Agency	:	Sri. S.D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149
Customer's Reference	:	EE(Project)/Ynk Zone/WO/11/2021-22
Date of Receipt	:	21-04-23
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	21-04-23

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	401	199	201	16040	32.625	2034.0	1998.9	Not less than 1800Kg/m^3
2	403	201	203	16444	32.551	1979.6		
3	405	200	201	16281	32.286	1983.0		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : CP-2023-06-05-02

Date: 25-04-23

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	200	202	
2	399	199	201	
3	399	203	201	
4	401	201	200	
5	404	202	203	
6	401	201	201	
7	400	203	203	
8	401	202	201	
9	399	203	200	
10	401	200	200	
11	403	202	202	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
12	400	202	203	
13	401	200	201	
14	404	202	200	
15	400	203	201	
16	400	203	201	
17	399	200	203	
18	404	200	202	
19	401	200	201	
20	402	202	199	
Average of 20	**401**	**201**	**201**	

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Lab ID : CP-2023-06-05-02 Date: 25-04-23

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^3)	(KN)	N/mm^2	(N/mm^2)
1	400	200	80057	350.6	4.4	4.3
2	399	199	79553	344.0	4.3	
3	399	203	81057	345.1	4.3	
4	401	201	80444	353.0	4.4	
5	404	202	81389	342.8	4.2	
6	401	201	80595	343.8	4.3	
7	400	203	81079	353.0	4.4	
8	401	202	81248	351.7	4.3	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

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TEST RESULTES ON STRUCTURAL STEEL

Lab ID	:	**CP-2023-06-05-02** **Date: 28-04-23**
Project Name	:	Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency
Agency	:	Sri. S.D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149
Customer's Reference	:	EE(Project)/Ynk Zone/WO/11/2021-22
Date of Receipt	:	26-04-23
Type/ Description of Sample*	:	Truss (Column) NB 200 OD 219.1, 12Th
Reference to BIS codes	:	IS 2062: 2011 (RA 2021), IS:1608-2005(RA 2017), IS 1599-2019.
Date of testing	:	26-04-23

SL.NO	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Weight/Meter	61.29 Kg /m	–	
2	Thickness	12 mm	–	
3	Outer Diameter	219.1 mm	–	
4	Yeild Stress	286 N/mm^2	240 N/mm^2	
5	Tensile Strength	455 N/mm^2	410 N/mm^2	
6	Elongation Percentage	18%	Min 15%	
7	Bend Test	Satisfactory	–	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/05/2023

Lab ID : **CP-2023-06-05-02**
Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency
Agency : Sri. S.D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149
Customer's Reference : EE(Project)/Ynk Zone/WO/11/2021-22
Date of Receipt : 02-05-23
Customer ID : PCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 05/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	28/04/2023	05/05/2023	150.50 X 151.04 X 150.84	22732	8.488	276.8	12.2	12.5
2	PCC	M15	28/04/2023	05/05/2023	150.51 X 149.74 X 150.76	22537	8.747	292.5	13.0	
3	PCC	M15	28/04/2023	05/05/2023	150.70 X 150.88 X 150.25	22738	8.305	279.6	12.3	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/05/2023

Lab ID	:	CP-2023-06-05-02
Project Name	:	Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency
Agency	:	Sri. S.D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149
Customer's Reference	:	EE(Project)/Ynk Zone/WO/11/2021-22
Date of Receipt	:	02-05-23
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	28/04/2023	26/05/2023	149.86 X 150.49 X 151.32	22553	8.419	405.3	18.0	17.6
2	PCC	M15	28/04/2023	26/05/2023	149.03 X 149.38 X 151.38	22261	8.125	379.5	17.0	
3	PCC	M15	28/04/2023	26/05/2023	151.93 X 150.88 X 150.20	22922	8.615	408.3	17.8	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/03/2023

Lab ID : **CP-2023-06-05-02**
Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency
Agency : Sri. S.D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149
Customer's Reference : EE(Project)/Ynk Zone/WO/11/2021-22
Date of Receipt : 01-03-23
Customer ID : Footing Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M25 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 06/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M25	27/02/2023	06/03/2023	151.79 X 149.19 X 151.52	22645	8.597	526.5	23.2	23.0
2	Footing Concrete	M25	27/02/2023	06/03/2023	151.48 X 149.01 X 150.05	22572	8.522	516.1	22.9	
3	Footing Concrete	M25	27/02/2023	06/03/2023	149.70 X 150.67 X 149.19	22555	8.462	516.8	22.9	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-06-05-02 **Date: 27/03/2023**

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency : Sri. S.D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk Zone/WO/11/2021-22

Date of Receipt : 01-03-23

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M25	27/02/2023	27/03/2023	150.97 X 150.87 X 151.15	22776	8.427	623.9	27.4	27.5
2	Footing Concrete	M25	27/02/2023	27/03/2023	149.82 X 150.08 X 151.87	22485	8.289	586.7	26.1	
3	Footing Concrete	M25	27/02/2023	27/03/2023	150.11 X 150.33 X 151.69	22566	8.484	652.4	28.9	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/03/2023

Lab ID : CP-2023-06-05-02
Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency
Agency : Sri. S.D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149
Customer's Reference : EE(Project)/Ynk Zone/WO/11/2021-22
Date of Receipt : 23-03-23
Customer ID : Column upto Ground level
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M25 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 27/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column upto Ground level	M25	20/03/2023	27/03/2023	151.52 X 150.07 X 150.40	22739	8.641	540.1	23.8	23.1
2	Column upto Ground level	M25	20/03/2023	27/03/2023	150.44 X 149.55 X 149.18	22498	8.600	513.8	22.8	
3	Column upto Ground level	M25	20/03/2023	27/03/2023	150.26 X 149.53 X 149.23	22468	8.638	509.8	22.7	

The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92
5/6/2023

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Date.....
BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-06-05-02 **Date: 17/04/2023**

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency : Sri. S.D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk Zone/WO/11/2021-22

Date of Receipt : 23-03-23

Customer ID : Column upto Ground level

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column upto Ground level	M25	20/03/2023	17/04/2023	149.59 X 149.80 X 149.32	22408	8.128	623.2	27.8	27.8
2	Column upto Ground level	M25	20/03/2023	17/04/2023	149.32 X 151.62 X 150.79	22639	8.835	604.1	26.7	
3	Column upto Ground level	M25	20/03/2023	17/04/2023	150.70 X 150.67 X 151.00	22705	8.323	653.2	28.8	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

CIVIL Pro Sig Date BANGALORE

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-06-05-02 **Date: 21/04/2023**

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency : Sri. S.D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk Zone/WO/11/2021-22

Date of Receipt : 17-04-23

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M25	14/04/2023	21/04/2023	151.77 X 150.33 X 149.44	22816	8.773	537.6	23.6	22.8
2	Column Concrete	M25	14/04/2023	21/04/2023	151.23 X 151.25 X 150.20	22873	8.198	511.7	22.4	
3	Column Concrete	M25	14/04/2023	21/04/2023	149.45 X 151.47 X 150.14	22638	8.824	506.6	22.4	

The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92
25/6/2023

CIVIL Pro
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Date.....
BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-06-05-02 **Date: 12/05/2023**

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency : Sri. S.D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk Zone/WO/11/2021-22

Date of Receipt : 17-04-23

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M25	14/04/2023	12/05/2023	149.23 X 149.01 X 149.96	22237	8.845	601.6	27.1	27.5
2	Column Concrete	M25	14/04/2023	12/05/2023	150.66 X 149.83 X 151.70	22572	8.224	606.4	26.9	
3	Column Concrete	M25	14/04/2023	12/05/2023	149.43 X 150.00 X 150.66	22415	8.832	641.7	28.6	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

CIVIL Pro Sig. Date. BANGALORE

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 09/05/2023

Lab ID : CP-2023-06-05-02
Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency
Agency : Sri. S.D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149
Customer's Reference : EE(Project)/Ynk Zone/WO/11/2021-22
Date of Receipt : 04-05-23
Customer ID : RCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 09/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	02/05/2023	09/05/2023	149.81 X 150.62 X 151.17	22564	8.461	523.5	23.2	22.9
2	RCC	M20	02/05/2023	09/05/2023	151.95 X 149.84 X 151.75	22768	8.988	523.2	23.0	
3	RCC	M20	02/05/2023	09/05/2023	151.03 X 149.61 X 151.50	22595	8.712	507.9	22.5	

The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92
5/6/2023

CIVIL Pro Sig. Date. BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-06-05-02 **Date: 30/05/2023**

Project Name : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency : Sri. S.D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149

Customer's Reference : EE(Project)/Ynk Zone/WO/11/2021-22

Date of Receipt : 04-05-23

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	02/05/2023	30/05/2023	149.49 X 151.57 X 149.80	22659	8.529	616.3	27.2	27.5
2	RCC	M20	02/05/2023	30/05/2023	149.56 X 149.09 X 150.21	22299	8.240	590.7	26.5	
3	RCC	M20	02/05/2023	30/05/2023	149.36 X 149.91 X 150.63	22391	8.471	643.4	28.7	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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